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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 0250-814

First Inventor or Application Identifier: Toshihiro ENDO et al.

Title: STENCIL PRINTER

Express Mail Label No.

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification Total Pages [11]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 USC 113) Total Sheets [3]
4. ☒ Oath or Declaration Total Pages [4]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
[Note Box 5 below]
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting  
inventor(s) named in the prior application,  
see 37 CFR 1.63(d)(2) and 1.33(b)
5. ☐ Incorporation By Reference (useable if Box 4b is checked)  
The entire disclosure of the prior application, from which a  
copy of the oath or declaration is supplied under Box 4b,  
is considered to be part of the disclosure of the  
accompanying application and is hereby incorporated by  
reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement ☐ Copies of IDS  
(IDS)/PTO-1449 Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
14. ☐ \*Small Entity ☐ Statement filed in prior application,  
Statement(s) Status still proper and desired  
(PTO/SB/09-12)
15. ☒ Certified Copy of Japanese Priority Document  
No 11-229615 Filed: August 16, 1999
16. ☐ Other.

\*A new statement is required to be entitled to pay small entity fees,  
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17. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment:

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Prior application information: Examiner: \_\_\_\_\_ Group/Art Unit: \_\_\_\_\_

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## STENCIL PRINTER

## BACKGROUND OF THE INVENTION

Field of the Invention

5 This invention relates to a stencil printer, and more particularly to a pump for supplying ink to an ink supply roll of a stencil printer.

Description of the Related Art

10 A stencil printer generally comprises a printing drum which is provided with an ink-permeable peripheral wall and an ink supply roll disposed in the peripheral wall. A stencil master is wound around the peripheral wall of the printing drum and printing ink is supplied to the stencil master by the ink supply roll in response to rotation of the printing drum. As  
15 a pump for supplying ink to the ink supply roll, there has been employed a piston pump or a plunger pump.

20 When ultraviolet ray curing ink is used in a stencil printer, curing of the ink at a part where friction by sliding is applied to the ink can cause trouble. When the ink cures, excessive load is applied to the pump and the pump can finally become unworkable. Accordingly, the material of the ink has to be carefully selected.

## SUMMARY OF THE INVENTION

25 In view of the foregoing observations and description, the primary object of the present invention is to provide a stencil printer having an ink supply pump which can suppress curing or

gelation of ink irrespective of the material of the ink.

In accordance with the present invention, there is provided a stencil printer comprising an ink supply pump in the form of a diaphragm pump.

5 It is preferred that the diaphragm pump be arranged to be stopped in a position where the stress applied to the diaphragm is not larger than 75% of the elastic limit of the diaphragm. Further it is preferred that the maximum stress applied to the diaphragm is not larger 75% of the elastic limit of the diaphragm.

10 It is further preferred that the diaphragm is of a material whose swelling ratio to the ink is not larger than 1.05.

Though the ink need not be limited to ultraviolet ray curing ink, the stencil printer of this invention is especially useful for ultraviolet ray curing ink.

15 In the stencil printer of the present invention, since the ink supply pump is a diaphragm pump, no friction by sliding is applied to the ink and accordingly, curing or gelation of the ink can be suppressed even if the ink is ultraviolet ray curing ink.

20 A stencil printer is operated under a wider variety of environmental conditions as compared with other office machines and sometimes is not operated for months. Accordingly, when the diaphragm is of rubber, deterioration deformation of rubber is generated and it becomes difficult to keep the performance of  
25 the pump. By arranging the diaphragm pump to be stopped in a position where the stress applied to the diaphragm is not larger

than 75% of the elastic limit of the diaphragm, deterioration-deformation of the diaphragm can be suppressed and the initial performance of the pump can be held for a long time.

Further, when the diaphragm is of a material whose swelling ratio to the ink is not larger than 1.05, the ink can be stably supplied for a long time. When the swelling ratio to the ink of the diaphragm is larger than 1.05, the diaphragm is deformed and it becomes difficult to keep the initial performance of the pump.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a fragmentary cross-sectional view of a stencil printer in accordance with an embodiment of the present invention showing a state of the ink supply pump where it stops with no stress on the diaphragm,

Figure 2 is a fragmentary cross-sectional view of the stencil printer showing a state of the ink supply pump where it is taking in the ink, and

Figure 3 is a fragmentary cross-sectional view of the stencil printer showing a state of the ink supply pump where it is discharging the ink.

#### DESCRIPTION OF THE PREFERRED EMBODIMENT

In Figure 1, a stencil printer in accordance with an embodiment of the present invention comprises a diaphragm pump 1 as an ink supply pump. The diaphragm pump 1 comprises pump housing 5 in which an ink intake port 2, an ink discharge port 3 and a pump chamber 4 are formed. An ink bottle 12 is mounted

on the ink intake port 2 and ink is supplied to the stencil printer through the ink discharge port 3. An intake-side check valve 6 which permits the ink to flow from the ink bottle 12 to the pump chamber 4 and does not permit the ink to flow in the reverse direction is provided in the passage between the ink intake port 2 and the pump chamber 4. A discharge-side check valve 7 which permits the ink to flow from the pump chamber 4 to the ink discharge port 3 and does not permit the ink to flow in the reverse direction is provided in the passage between the ink discharge port 3 and the pump chamber 4. The check valves 6 and 7 are normally closed by coiled springs 8 and 9, respectively. A disc-like diaphragm 10 is disposed on the side of the pump chamber 4 remote from the ink intake port 2 and faces the pump chamber 4. The diaphragm 10 is fixed to the pump housing 5 by a ring 11 at the peripheral edge thereof.

The diaphragm 10 is driven by a mechanism comprising a gear 13 which is rotated by an electric motor (not shown), an eccentric cam 14 which is fixed to the gear 13 at a distance  $d$  from the axis of rotation  $Q$  of the gear 13, and a cam follower 16 which is provided with an opening 15 in engagement with the eccentric cam 14 and is moveable left and right in perpendicular to the surface of the diaphragm 10.

The opening 15 of the cam follower 16 is elongated in the vertical direction in perpendicular to the direction in which the cam follower 16 is moved back and forth, and as the gear 13 rotates, the eccentric cam 14 is rotated about the axis of

rotation  $Q$  of the gear 13 while moving left and right the cam follower 16 in a stroke of  $2d$  by way of the engagement between the eccentric cam 14 and the opening 15.

5 A central portion of the diaphragm 10 is pinched between a pair of mounting plates 17 and 18, and the mounting plates 17 and 18 are fixed to a surface 16a of the cam follower 16 opposed to the diaphragm 10 by way of a bolt 19 which extends through the diaphragm 10 and the mounting plates 17 and 18 at the center thereof, whereby the central portion of the diaphragm 10 is connected to the cam follower 16.

10 A guide rod 20 extends from the surface of the cam follower 16b opposite to the surface 16a in a direction in which the cam follower 16 is move back and forth and is slidably fitted in a sleeve 20 mounted on a stationary frame 21, whereby the cam follower 16 is moved back and forth under the guidance of the guide rod 22.

15 In the state shown in Figure 1, the eccentric cam 14 is just below the axis of rotation  $Q$  of the gear 13 and accordingly the diaphragm 10 is positioned in a neutral position where no stress is applied to the diaphragm 10.

20 When that the amount of ink on an ink supply roll (not shown) becomes smaller than a predetermined value is electrically detected, the gear 13 is rotated in the counterclockwise direction in Figure 1 to move the eccentric cam 14 rightward of the axis of rotation  $Q$  of the gear 13 and the cam follower 16 is moved rightward in Figure 1, whereby the diaphragm 10 is

deformed rightward as shown in Figure 2 to increase the volume of the pump chamber 4 and the intake-side check valve 6 is opened overcoming the force of the spring 8 so that the ink in the ink bottle 12 is introduced into the pump chamber 4.

5           When the eccentric cam 14 is moved leftward of the axis of rotation  $\Omega$  of the gear 13 passing above the axis of rotation  $\Omega$  as shown in Figure 3, the cam follower 16 is moved leftward and the diaphragm 10 is deformed leftward to reduce the volume of the pump chamber 4, whereby the discharge-side check valve 7 is opened overcoming the force of the spring 9 and the ink inside the pump chamber 4 is discharged toward the stencil printer through the ink discharge port 3.

10  
15           When the amount of ink on the ink supply roll reaches a predetermined value, the gear 13 is stopped and the pump 1 is stopped.

20           When the diaphragm 10 is stopped at this time in a position where the stress applied to the diaphragm 10 is not larger than 75% of the elastic limit of the diaphragm 10, deterioration-deformation of the diaphragm 10 can be suppressed and the initial performance of the pump 1 can be held even if the pump 1 is kept stopped for a long time.

          For example, the diaphragm 10 can be stopped in a desired position by mounting a position sensor on the gear 13 and stopping the gear 13 in a predetermined position.

25           The following table 1 shows the relation between the position in which the diaphragm 10 was stopped (in the term of

the percentage to the stress corresponding to the elastic limit) and deformation deterioration of the diaphragm 10 after the pump was stopped for three months at 23°C. The diaphragm 10 was of EPDM (ethylene-propylene-diene-methylene) rubber.

Table 1

position of the diaphragm (percentage to elastic limit)	deformation deterioration (pump performance)
0%	○
25%	○
50%	○
75%	△
80%	x
100%	x

wherein ○ represents that the diaphragm 10 was not deformed, △ represents the diaphragm 10 was somewhat deformed but the pump performance was kept to be acceptable, and x represents that the diaphragm 10 was deformed to such an extent that the pump performance was unacceptable.

As can be understood from table 1, when the diaphragm 10 is stopped for a long time in a position where the stress applied to the diaphragm 10 is larger than 75% of the elastic limit of the diaphragm 10, the initial performance of the pump 1 cannot be held due to deterioration deformation of the diaphragm 10.

By setting the distance d of the eccentric cam 14 from the axis of rotation Q of the gear 13 so that the maximum stress applied to the diaphragm 10 is not larger 75% of the elastic limit of the diaphragm 10, deterioration deformation of the diaphragm 10 can be suppressed wherever the gear 13 is stopped.

As the ink, ultraviolet ray curing ink of the composition



shown in the following table 2 was used.

Table 2

oligomer (epoxy acrylate oligomer)	20 parts
monomer 1 (dipentaerythritol hexaacrylate)	34 parts
monomer 2 (phenyl ethylene oxide denatured acrylate)	34 parts
pigment (furnace carbon black)	4 parts
photo-initiator	3 parts
viscosity adjustment agent	3 parts
dispersant	1 part
polymerization inhibitor	0.1 part

The following table 3 shows the relation between the material (swelling ratio) of the diaphragm 10 and deformation-deterioration of the diaphragm 10 after the pump was stopped for three months at 23°C in a position where the stress on the diaphragm was 0% (in the term of the percentage to the stress corresponding to the elastic limit). Ultraviolet ray curing ink of the composition shown in table 2 was used.

Table 3

material (swelling ratio)	fluoro- rubber (1.05)	silicone rubber (1.01)	natural rubber (0.95)	NBR (1.65)	urethane rubber (1.45)
deformation· deterioration (pump performance)	○	○	○	×	×

wherein ○ represents that the diaphragm 10 was not deformed, and × represents that the diaphragm 10 was deformed to such an extent that the pump performance was unacceptable.

As can be understood from table 3, when the diaphragm 10 is of a material whose swelling ratio to the ink is not larger than 1.05, the initial performance of the pump 1 can be held for

a long time.

In addition, all of the contents of Japanese Patent Application No. 11(1999)-229615 are incorporated into this specification by reference.

What is claimed is;

1. A stencil printer comprising an ink supply pump in the form of a diaphragm pump.

2. A stencil printer as defined in Claim 1 in which the diaphragm pump is arranged to be stopped in a position where the stress applied to the diaphragm of the diaphragm pump is not larger than 75% of the elastic limit of the diaphragm.

3. A stencil printer as defined in Claim 1 in which the diaphragm pump is arranged so that the maximum stress applied to the diaphragm during operation of the diaphragm pump does not exceed 75% of the elastic limit of the diaphragm.

4. A stencil printer as defined in Claim 1 in which the diaphragm is of a material whose swelling ratio to the ink is not larger than 1.05.

5. A stencil printer as defined in Claim 1 in which ultraviolet ray curing ink is used.

ABSTRACT OF THE DISCLOSURE

In a stencil printer, a diaphragm pump is used as an ink supply pump.

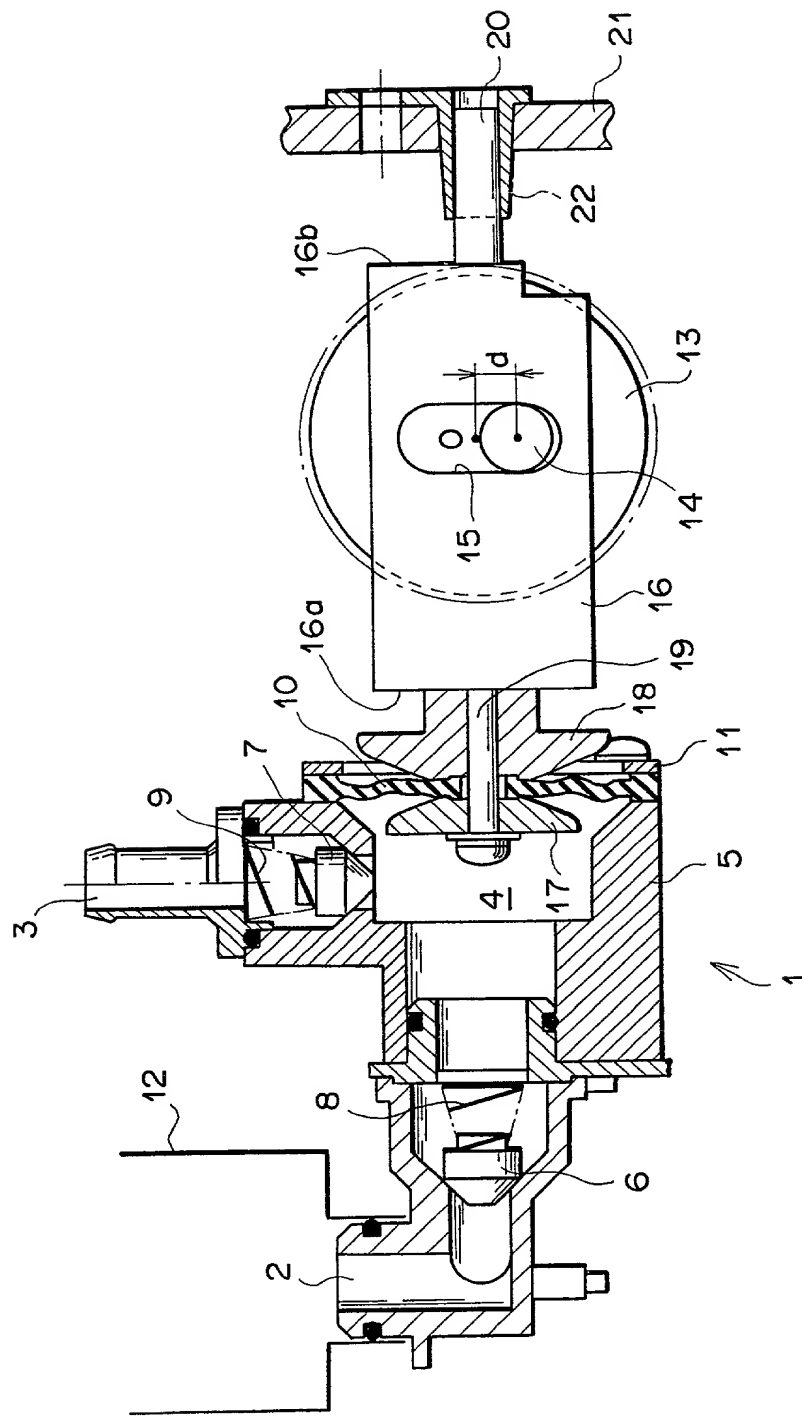


FIG. 1

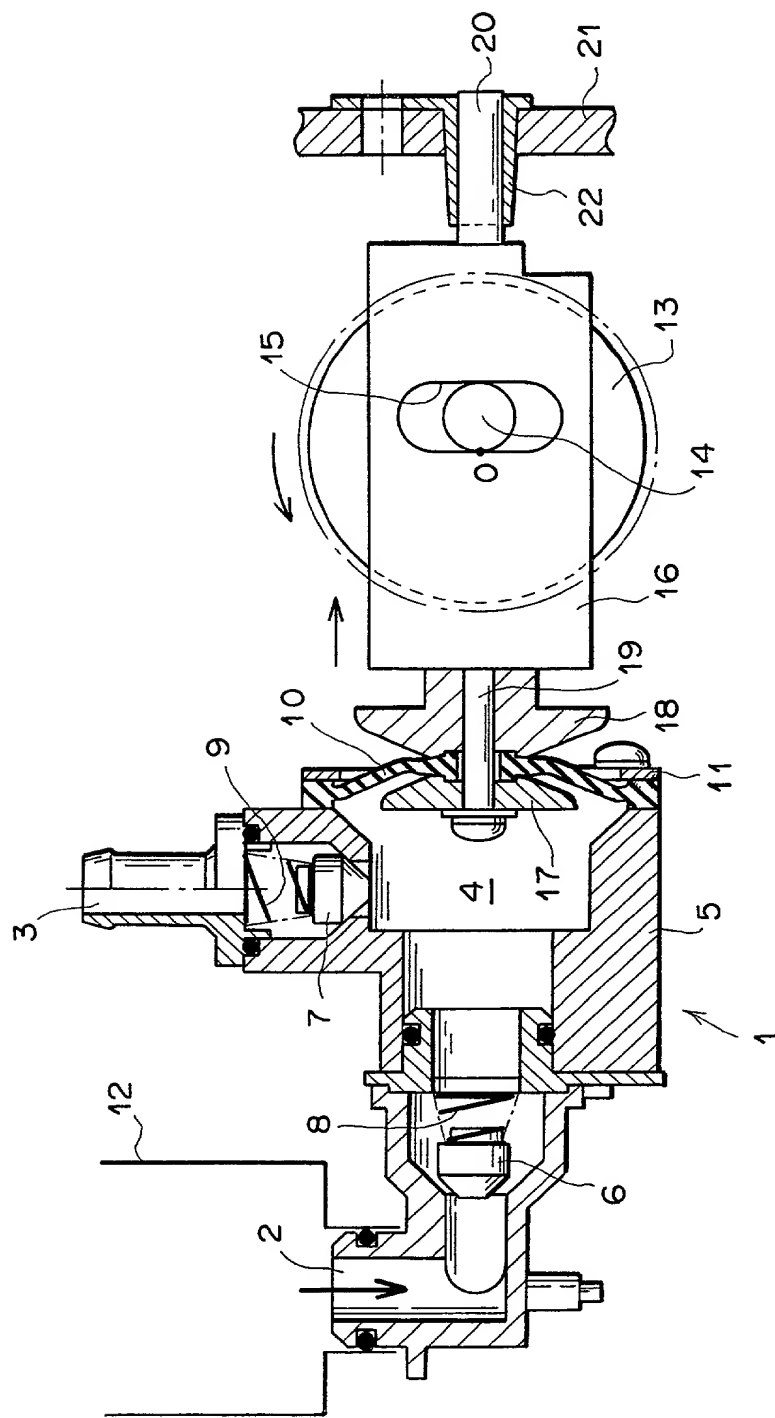


FIG. 2

•



F-1-G-3.

Declaration and Power of Attorney For Patent Application PFI 420745

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

Toshihiro Endo, Yasuo Yamamoto  
and Tadayuki Wakatabi

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as  
stated next to my name. c/o Riso Kagaku Corporation  
R&D Center, 1339-2, Wakaguri, Nishikanda,  
Amimachi, Inashiki-gun, Ibaraki-ken, Japan

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者(下記の氏名が一つの場合)もしくは最初かつ共同発明者であると(下記の名称が複数の場合)信じています。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

"STENCIL PRINTER"

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I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.



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## Prior Foreign Application(s)

外国での先行出願

## Priority Not Claimed

優先権主張なし

(patent) 229615/1999

(Number)  
(番号)

Japan

(Country)  
(国名)

16/08/1999

(Day/Month/Year Filed)  
(出願年月日)

☐

(Number)  
(番号)

(Country)  
(国名)

(Day/Month/Year Filed)  
(出願年月日)

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(Number)  
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(国名)

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(出願年月日)

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(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

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I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Application No.)  
(出願番号)

(Filing Date)  
(出願日)

(Status: Patented, Pending, Abandoned)  
(現況: 特許許可済、継続中、放棄済)

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number).

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住所	Residence		
国籍	Citizenship		
私書箱	Post Office Address		